MAGNETIC RESONANCE IMAGING

data support the safe use of the IVAC 530 close within the MR imaging field and the IMED 960/965 at a level of 10 G. The IMED 927 and 960/965 should not be used close within the MR imaging field. Studies of the effect of MR imaging on additional types of intravenous devices, and the potential for intravenous devices to cause artifacts on MR images, should be pursued.

- REFERENCES
- 1. Bloch F: Nuclear induction. Phys Rev 1946; 70:460-473
- 2. Purcell EM, Torvey HC, Pound RV: Resonance absorption by nuclear magnetic moments in a solid. Phys Rev 1946; 69:127
- 3. Damadian R: Tumor detection by nuclear magnetic resonance. Science 1971; 171:1151-1153
- 4. Lauterbur PC: Image formation by induced local interactions: Examples of employing nuclear magnetic resonance. Nature (London) 1973; 242:190-191
- 5. Damadian R, Goldsmith M, Minkoff L: NMR in cancer: XVI-FONAR image of the live human body. Physiol Chem Phys 1977; 9:97-100, 108
- 6. Hinshaw WS, Andrew ER, Bottomley PA, et al: An in vivo study of the forearm and hand by thin section NMR imaging. Br J Radiol 1979; 52:36-43
- 7. Moore WS, Holland GN, Kreel L: The NMR CAT scanner-A new look at the brain. J Comput Tomogr 1980; 4:1-7

- 8. Steiner RE: The Hammersmith clinical experience with nuclear magnetic resonance. Clin Radiol 1983; 34:13-23
- 9. Bydder GM: Brain imaging by nuclear magnetic resonance. Practitioner 1983; 227:497-501
- 10. Davis PL, Crooks LE, Margulis AR, et al: Nuclear magnetic resonance imaging: Current capabilities. West J Med 1982 Oct; 137:290-293
- 11. Higgins CB, Lanzer P, Stark D, et al: Imaging by nuclear magnetic resonance in patients with chronic ischemic heart disease. Circulation 1984; 69:523-531
- 12: Freeman LM, Blaufox MD: The technology of nuclear magnetic resonance (Letter). Semin Nucl Med 1983; 13:305-307
- 13. Brady TJ, Pykett IL: NMR spectroscopy (Letter). Semin Nucl Med 1983 Oct;
- 14. Radda GK: Potential and limitations of nuclear magnetic resonance for the cardiologist. Br Heart J 1983; 50:197-201
- 15. Davis PL, Crooks L, Arakawa M, et al: Potential hazards in NMR imaging: Heating effects of changing magnetic fields and radio frequency fields on small metallic implants. AJR 1981; 137:857-860
- 16. Pavlicek W, Geisinger M, Castle L, et al: The effects of nuclear magnetic resonance on patients with cardiac pacemakers. Radiology 1983; 147:149-153
- 17. New PF, Rosen BR, Brady TJ, et al: Potential hazards and artifacts of ferromagnetic and nonferromagnetic surgical and dental materials and devices in nuclear magnetic resonance imaging. Radiology 1983; 147:139-148

Medical Practice Question

EDITOR'S NOTE: From time to time medical practice questions from organizations with a legitimate interest in the information are referred to the Scientific Board by the Quality Care Review Commission of the California Medical Association. The opinions offered are based on training, experience and literature reviewed by specialists. These opinions are, however, informational only and should not be interpreted as directives, instructions or policy statements.

Laser Therapy for Plantar Warts

QUESTION:

Is it accepted medical practice to treat plantar warts by laser therapy?

OPINION:

In the opinion of the Scientific Advisory Panels on Dermatology and Orthopedics, laser therapy can be considered established practice in the treatment of plantar warts, but not as a routine or initial form of therapy. Its use should be reserved for lesions that have proved therapeutically unresponsive to other conservative means of treatment such as chemocautery, cryosurgery or electrosurgery. Where lesions are recurrent or very extensive, such as mosaic warts, or multiple, particularly periungual warts, laser therapy may be justified. For most patients with plantar warts, however, there is no conclusive evidence that laser therapy is more effective than less expensive modalities.